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Report of the

SIXTEENTH ANNUAL CONFERENCE OF THE EUROPEAN ASSOCIATION OF FISHERIES ECONOMISTS

Rome, 5–7 April 2004

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The European Association of Fisheries Economists

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compiled by

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and
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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Rome, 2004

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PREPARATION OF THIS DOCUMENT

This is the report of the Sixteenth Annual Conference of the European Association of Fisheries Economists (EAFE), held at the premises of the Food and Agriculture Organization of the United Nations (FAO) in Rome, Italy, from 5 to 7 April 2004. A CD-Rom containing unedited papers presented at this Conference (see list in Appendix D) is attached at the end of this document.

The compilers of this report would like to thank Dr Philip Rodgers (President of the EAFE), Mr Hans Frost, Ms Elsebeth Vidø, Mr Erik Lindebo (Danish Research Institute for Food), Mr Raschad Al Khafaji, Ms Patricia Brennan, Ms Yvonne Davidsson, Ms Indra Gondowarsito, Ms Giovanna Martone, Mr Audun Lem, Mr Benedict Satia, Ms Françoise Schatto and Mr Ulf Wijkström (FAO), Mr Vincenzo Placenti (Istituto di Ricerche Economiche per la Pesca e l'Acquacoltura) and Mr Carl-Christian Schmidt (Organisation for Economic Co-operation and Development) for their collaboration in the preparation and organization of the Conference. The institutional support from the FAO Fisheries Policy and Planning Division (FIP) and the Assistant Director-General of the FAO Fisheries Department, Mr Ichiro Nomura, are acknowledged with thanks. General thanks for their important contributions to the presentations and discussions are due to all who attended the Conference.

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Distribution:

Participants in the Conference
All FAO Members
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ABSTRACT

This document contains the proceedings of the Sixteenth Annual Conference of the European Association of Fisheries Economists (EAFE) which was held at FAO headquarters in Rome, Italy, from 5 to 7 April 2004.

The purpose of the conference was to provide a forum for the dissemination of recent advances in capture fisheries and aquaculture economics and management and to promote discussion among researchers, managers, policy-makers and other stakeholders in the fisheries sector. It aimed at contributing to the following EAFE objectives: to promote cooperation in research in fisheries and aquaculture; to assist in the dissemination of information about fisheries economics among members; and to understand further the economics of fisheries and aquaculture.

During the conference 63 presentations were given, addressing a wide variety of issues grouped into the following six themes: 1) World Trade Organization negotiations with specific reference to market access and fishery subsidies issues; 2) Ecological and environmental interactions with the economics of fisheries; 3) Impact of fisheries management decisions on fisheries; 4) European research issues; 5) Fisheries development and employment; and 6) Industry issues.

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OPENING OF THE CONFERENCE

1. The Sixteenth Annual Conference of the European Association of Fisheries Economists (EAFE) was held at the premises of the Food and Agriculture Organization of the United Nations (FAO) in Rome, Italy, from 5 to 7 April 2004.

2. The Conference was well attended by 90 participants from 14 countries and four international organizations (European Commission, Organisation for Economic Co-operation and Development, World Trade Organization and FAO). A list of participants is attached as Appendix B.

3. The participants were welcomed by the President of the EAFE, Dr Philip Rodgers. He expressed his pleasure to see that such a large number of fisheries and aquaculture economists had taken the initiative to travel to Rome to share their research findings with others. He thanked FAO for hosting this Sixteenth Conference at its premises in Rome. He continued by highlighting the EAFE objectives to provide a forum for the dissemination of recent advances in capture fisheries and aquaculture economics and management and to promote discussion amongst researchers, managers, policy-makers and other stakeholders in the fisheries sector. Like earlier Annual Conferences the Sixteenth Conference aims to promote cooperation in research in fisheries and aquaculture, to assist in the dissemination of information about fisheries economics among members, and to further understand the economics of fisheries and aquaculture.

4. Following the EAFE President, Mr Ichiro Nomura, Assistant Director-General of the FAO Fisheries Department, extended a warm welcome to all participants in the Conference. He acknowledged the important contribution of the EAFE to the research on economics in fisheries and aquaculture in Europe. Mr Nomura then explained the goals and activities of FAO and particularly the Fisheries Department, making reference to the work in promotion of long-term sustainable development and utilization of the world's fisheries and aquaculture and to contribute to food security. He detailed that the three main pillars of FAO's work in fisheries are directed towards: i) the promotion of responsible fisheries sector management at the global, regional and national levels, with priority given to the implementation of the Code of Conduct for Responsible Fisheries, Compliance Agreement on High Seas Fishing Vessels, and various international plans of action; ii) increasing the contribution of responsible fisheries and aquaculture to world food supplies and food security; and iii) global monitoring and strategic analysis of fisheries. Priority here is given to the gathering of fisheries data, development of databases, analysis of information and dissemination of information. He ended his welcome address emphasizing the need for promotion of research in those socio-economic areas of fisheries of critical importance to the sector and thanked the EAFE President and Bureau and the Scientific and Organizational Committees for their efforts in making the Conference possible. The welcome address is attached as Appendix C to this report.

5. The opening session continued with a presentation by Dr Benedict Satia, titled: The role of the FAO Code of Conduct for Responsible Fisheries in promoting social and economic sustainable development in Fisheries. His presentation can be found in the CD-Rom enclosed in this report.

ADOPTION OF THE PROGRAMME AND ARRANGEMENTS FOR THE CONFERENCE

6. Following the opening session, Ms Cassandra De Young of FAO, in name of the Organizing Committee, presented the programme for the Sixteenth Annual Conference (attached as Appendix A) and introduced the members of the Organizational and Scientific Committees.

The Organizing Committee was composed of the following persons:
- Raschad Al Khafaji, FAO, Italy
- Raymon van Anrooy, FAO, Italy
- Yvonne Davidsson, FAO, Italy
- Cassandra De Young, FAO, Italy
- Indra Gondowarsito, FAO, Italy

The Scientific Committee was composed of the following persons:
- Raymon van Anrooy, FAO, Italy
- Cassandra de Young, FAO, Italy
- Vincenzo Placenti, IREPA Italy
- Philip Rodgers, Centre for Fishery Economics Research Ltd, United Kingdom
- Carl-Christian Schmidt, OECD, France

KEYNOTE SPEECHES AND PRESENTATIONS

7. The Conference was divided in four plenary sessions led by invited keynote speakers and six themes divided into 15 sessions.

8. The first plenary session, entitled "WTO negotiations with specific reference to market access and fishery subsidy issues", was introduced by the keynote speaker Ms Christina Schröder of the WTO. The session was chaired by Dr Audun Lem of FAO. Ms Schröder provided the historical background of the WTO, its purpose, membership and structure, and followed with a review of the procedures used for trade disputes settlements, the Doha Development Round, current market access negotiations, and tariffs on fish and fish products. She detailed the current status of the fishery subsidy negotiations within the WTO and concluded by informing the participants of the various proposals for dealing with fisheries subsidies that are on the table for negotiation.

9. The second plenary session started with a keynote speech of Mr George MacRae of the Scottish White Fish Producers Association. The session was chaired by Dr Ola Flaaten of the Norwegian College of Fishery Science. The speech of Mr MacRae was titled: "The equation: matching economic fishing effort with regenerated fish stocks" and preceded the second session which was titled "Ecological and environmental interactions with the economics of fisheries". He started his speech stressing that matching economic fishing efforts with sensible conservation/stock regeneration is extremely important for the future of fisheries in Europe. He then discussed various fisheries and their trends in the last decades, such as the North Sea cod, whiting and haddock fisheries, and the relationships between sea mammals, seabirds and industrial fisheries. The Regional Advisory Councils, set up by the European Union (EU), and the way they function was touched upon as well. At the end of his speech he emphasized the important role economists have to play in the current and future fisheries industry in Europe; a role from which they should not walk away.

10. Professor Bill Schrank of Memorial University, St John's, Newfoundland, Canada, opened the third plenary session with a Keynote speech titled: "Government policy, fisheries management and the Newfoundland Economy: 1991 and 2002". This session was chaired by Mr Anthony Cox of the OECD. Professor Schrank initiated his talk by stressing that excessive overfishing combined with negative environmental conditions led to the decimation of the northern cod stock and, despite its 12-year closure to commercial fishing from 1992, a failure to restore the stock. He continued by detailing the current state of the Newfoundland economy and the Newfoundland fishery and asked whether the lessons of the earlier day have been learned. The answer appeared to be no as, although the decimated groundfish have been replaced by shellfish, the nominal value of landings having doubled since 1992, the fishery still has excess capacity, fishers and fish plant workers generally earn low incomes, and the fishery remains heavily subsidized.

11. The fourth plenary session of the Conference was a well appreciated annual update of the EU Framework Programmes (FP). This session was chaired by Dr Premachandra Wattage of the Centre for the Economics and Management of Aquatic Resources (CEMARE), and Mr Sigurdur Bogason of the Directorate General (DG) Fish presented the EU Framework Programmes (FP) in fisheries in his speech, "Fishery economics research & data analysis". Mr Bogason covered issues such as: Specific support to policy (SSP) in the sixth FP, Fishery Economics Research under the fifth FP, the demand for socio-economic research in fisheries, thematic priorities of the DG Fish and funding possibilities under the sixth FP and the seventh FP. He terminated his speech with providing the websites where more information on FPs, DG Fish and DG Research could be found at **www.cordis.lu/sme; http://europa.eu.int/comm/research/index_en.html; http://europa.eu.int/comm/fisheries/.**

12. The plenary sessions were followed by parallel sessions in which the participating scientists presented their research findings in six theme areas: 1) WTO negotiations with specific reference to market access and fishery subsidies issues; 2) Ecological and environmental interactions with the economics of fisheries; 3) Impact of fisheries management decisions on fisheries; 4) European research issues; 5) Fisheries development and employment; and 6) Industry issues. Appendix D provides a list of all papers presented at the Conference.

13. Unedited, completed papers of the presentations can be found on the CD-Rom attached to this report.

CLOSURE OF THE CONFERENCE

14. The Secretary of the EAFE, Ms Evalina Sabatella of the Istituto di Ricerche Economiche per la Pesca e l'Acquacoltura (IREPA), thanked FAO for hosting the Sixteenth Annual Conference and acknowledged the assistance of the Organizing and Scientific Committees and the large participation of EAFE members as contributing towards making the Conference the success it was. She noted the high quality of the papers presented and invited participants to further their discussions during the Seventeenth EAFE Conference to be held in 2005.

APPENDIX A

Programme

	Monday, 5 April	
8:30	**Registration (Turkish Room - FAO entrance)**	
9:30	**Plenary Hall: Welcome address by the Chairperson: Philip Rodgers, President of EAFE**	
9:45	**Plenary Hall: Welcome words in name of FAO: Ichiro Nomura, Assistant Director General of the FAO**	
10:00	**Plenary Hall: Presentation on the role of the FAO Code of Conduct for Responsible Fisheries in promoting social and economic sustainable development in fisheries - Ben Satia (FAO)**	
10:30	Coffee break	
11:00	**Plenary Session 1: WTO negotiations with specific reference to market access and fishery subsidy issues - Christina Schröder (WTO); Chair: Audem Lem (FAO)**	
12:00	**Group photo (Atrium Hall - ground floor between Buildings A and B)**	
12:10	Lunch	
13:30	***Parallel session 1a*** **Subsidies and financial transfers**	***Parallel session 3a*** **Modelling trends in employment and wages**
15:00	Coffee break	
15:20	***Parallel session 2a*** **Marine reserves**	***Parallel session 4a*** **Output control: TACs**
18:00	**Cocktail in the Aventino Room (8th floor B building)**	
	Tuesday, 6 April	
9:00	**Plenary Session 2: Ecological and environmental interactions with the economics of fisheries - Mr George MacRae (Scottish White Fish Producers Association); Chair: Ola Flaaten (Norwegian College of Fishery Science)**	
10:00	Coffee break	
10:20	***Parallel session 2b + 2c*** **Biodiversity and cetaceans** **(Environmental) labels and preferences**	***Parallel session 6a*** **The Salmon industry**
12:20	Lunch	
14:00	***Parallel session 1b*** **Special trade issues**	***Parallel session 5a (part 1)*** **Bio-economic modelling**
15:30	Coffee break	
15:50	***Parallel session 4b*** **Output control: ITQs**	***Parallel session 5a (part 2) and 1c*** **Bio-economic modelling** **Aquaculture and general trade concerns**
18:00	**Plenary Hall: Annual General Meeting**	
19:30	**Conference Dinner:** Orazio Restaurant (5, via di Porta Latina)	

	Wednesday, 7 April	
9:00	**Plenary Session 3: Impact of fisheries management decisions on fisheries - Prof W. Schrank (Memorial University, Newfoundland); Chair: Anthony Cox (OECD)**	
10:00	Coffee break	
10:20	***Parallel session 4c*** **Fishers' perceptions**	***Parallel session 5b*** **Data sampling, indicators and time-series**
12:50	Lunch	
14:00	**Plenary Session 4: EU research issues - Mr Sigurdur Bogason (EC, DG Fish); Chair: Premachandra Wattage (CEMARE)**	
15:00	Coffee break	
15:20	***Parallel session 4d and 3b*** **Other management measures** **The role of fisheries in development**	***Parallel session 6b and 6c*** **Market analyses** **Supply-side issues**
18:00	**Closing session in Plenary: EAFE**	
18:30	**Official end of Conference**	

APPENDIX B

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APPENDIX C

Welcome address by Mr Ichiro Nomura, Assistant Director-General, FAO Fisheries Department

Mr President of EAFE, Members of the Bureau, Ladies and Gentlemen,

Good morning and welcome to Rome,

I am very pleased to welcome you here at the premises of the Food and Agriculture Organization of the United Nations. We consider it an honour to host the Sixteenth Annual Conference of the European Association of Fisheries Economists (EAFE) here in Rome.

Since 1989, the EAFE has contributed considerably to the research on economics in fisheries and aquaculture in Europe. Its annual conferences have provided a useful forum to exchange the most up to date information on fisheries economics and to strengthen cooperation between scientists and institutes. The FAO recognizes the role of the economic research being undertaken by the scientists such as yourselves and, therefore, welcome the opportunity to provide you with the facilities to discuss your research here at the Organizations' premises.

Let me briefly present to you the activities of FAO. I assume that most of you have visited our website and have seen the breath and depth of issues covered in the FAO documents and online databases. However, FAO is more than a repository for publications.

FAO is the organization of the United Nations, more specifically a Specialized Agency of the UN with a mandate in rural development and food security. Achieving food security for all is at the heart of FAO's efforts - to make sure people have regular access to enough high-quality food to lead active, healthy lives. FAO aims to raise levels of nutrition, improve agricultural and fisheries productivity, better the lives of rural populations and contribute to the growth of the world economy.

Ladies and Gentlemen,

FAO's Fisheries Department, which is one of six technical departments in the Organization, comprises over 70 professionals based here at FAO Headquarters and about a dozen in our regional offices and approximately 20 in field projects worldwide. Together with supporting staffs the Department houses about 200 people. Together we aim to promote long-term sustainable development and utilization of the world's fisheries and aquaculture and to contribute to food security. Our three main pillars of work are directed towards:

Firstly - The promotion of responsible fisheries sector management at the global, regional and national levels, with priority given to the implementation of the Code of Conduct for Responsible Fisheries, Compliance Agreement on High Seas Fishing Vessels, and various international plans of action. Particular attention is paid to addressing problems of excess fishing capacity, combating Illegal, Unreported and Unregulated Fishing and the provision of advice for the strengthening of Regional Fishery Bodies.

Secondly - Increasing the contribution of responsible fisheries and aquaculture to world food supplies and food security. Following on the outcome of the 1995 Kyoto Conference on the Sustainable Contribution of Fisheries to Food Security and the two World Food Summits in 1996 and 2002, the Fisheries Department strives to improve the livelihoods of those working

in the fisheries sectors through, for example, the improvement of harvest post-harvest practices and the development of trade opportunities for previously unexploited markets.

Thirdly - Global monitoring and strategic analysis of fisheries. Priority here is given to the gathering of fisheries data, development of databases, analysis of information and dissemination of information. I believe that all of you found in your welcome package copies of some of our key publications – the Code of Conduct for Responsible Fisheries and the 2002 version of The State of World Fisheries and Aquaculture (SOFIA). The latter is published on a biennial basis.

As our colleague Mr Benedict Satia will explain to you in a moment, the Code of Conduct for Responsible Fisheries was developed in the 1990s in collaboration with fisheries scientists, policy-makers and fisheries managers. It is the result of an increased awareness of the generally poor state of many of the world's major fisheries, ineffective conservation and management practices, and the need to ensure long-term sustainable development in the fisheries sector. The FAO, as guardian of the Code, has overall responsibility to promote and coordinate its implementation. This can be greatly facilitated by improved cooperation in information exchanges and improved by progress towards comparable and complementary approaches to, and systems of, data collection and analysis. Not only is there a need for the exchange of information related to the impacts of management actions on the environment and resources but there is also the need for a better understanding of the effects of such measures on the various actors in the fisheries. Understanding these relationships will greatly assist in the development and implementation of national plans of action related to the Code.

Mr Chairman, Ladies and Gentlemen,

FAO believes in cooperation, networks, and partnerships to address together the needs in attaining our mutual sustainable development goals. In this regard, this Conference provides an opportunity to become acquainted with FAO's activities, particularly in fisheries and would hopefully contribute to the promotion of research in those socio-economic areas of fisheries of critical importance to the sector.

The scope of this conference is wide; including descriptions of European fisheries and aquaculture production and value chains, the interactive effects of management options and environmental factors on fisheries, the current research trends in European universities, and the links between subsidies and international trade agreements. Underlying this seemingly varied range of topics is the goal of developing sustainable fisheries in an increasingly complex world in which the need to understand the legal, socio-economic, biological, cultural, and international context and interactions of every fishery is paramount. I am sure that you would address these issues in a constructive manner.

I would like to end this welcome statement by thanking the EAFE President and Bureau and the Scientific and Organizational Committees for their efforts in making this Conference possible. I hope that the Conference will be fruitful and will bring interesting new views and ideas to all of us and contribute to sustainable development of fisheries world-wide and in Europe in particular. Enjoy the presentations!

Thank you for your attention.

APPENDIX D

List of papers presented

THEME ONE: WTO NEGOTIATIONS WITH SPECIFIC REFERENCE TO MARKET ACCESS AND FISHERY SUBSIDIES ISSUES

1a) SUBSIDIES AND FINANCIAL TRANSFERS

- FISHERIES SUBSIDIES: THE WTO AND BEYOND – Anthony Cox
- GOVERNMENT FINANCIAL TRANSFERS TO THE FISH HARVESTING, PROCESSING AND AQUACULTURE INDUSTRIES – Øystein Hermansen and Ola Flaaten
- THE COST OF FISHERIES MANAGEMENT IN ESTONIA – Hannes Ulmas and Gunnar Haraldsson

1b) SPECIAL TRADE ISSUES

- A REGIONAL BUSINESS MANAGEMENT MODEL FOR FISHERY RIGHTS: THE CASE OF NORWAY – Torbjørn Trondsen and James A Young
- USING TRADE MEASURES IN THE FIGHT AGAINST IUU FISHING: OPPORTUNITIES AND CHALLENGES – Bertrand Le Gallic
- TOWARDS A MEDITERRANEAN FREE TRADE AREA FISH TRADE RELATIONS WITHIN THE MEDITERRANEAN BASIN – Loretta Malvarosa

1c) AQUACULTURE AND GENERAL TRADE CONCERNS

- AQUACULTURE SEA BREAM AND SEA BASS TRADE STRUCTURE IN THE MEDITERRANEAN – V. Kourkouta and S. Fotiou
- COMPETITION BETWEEN FARMED AND WILD SALMON: THE JAPANESE SALMON MARKET – Frank Asche, Atle G. Guttormsen, Tom Sebulonsen and Elin H. Sissener

THEME TWO: ECOLOGICAL AND ENVIRONMENTAL INTERACTIONS WITH THE ECONOMICS OF FISHERIES

2a) MARINE RESERVES

- USING RESERVES TO PROTECT FISH AND WILDLIFE – SIMPLIFIED MODELING APPROACHES – Ola Flaaten and Einar Mjølhus
- PERFORMANCE INDICATORS OF MARINE PROTECTED AREA MANAGEMENT: STAKEHOLDERS' PERSPECTIVES ON SOCIO–ECONOMIC IMPACTS OF MPAS ON SICILIAN FISHING COMMUNITIES – Amber Himes
- TOTAL ECONOMIC VALUE OF FISHERY DEPENDENT AREA CONSERVATION IN SRI LANKAN WETLANDS: APPLICATION OF CONTINGENT VALUATION METHOD (CVM) AND ANALYTIC HIERARCHY PROCESS (AHP) TO IDENTIFY USE AND NON–USE VALUES – P. Wattage and S. Mardle
- FISHERIES AND NATURE CONSERVATION: FISHERIES MANAGEMENT AND THE NATURA 2000 – NETWORK – Svane Bender, Ralf Doering and Iris Laforet

2b) BIODIVERSITY AND CETACEANS

- CONNECTING ECOLOGY WITH ECONOMICS IN FISHERIES–DEPENDENT REGIONS: THE CASE OF CORNWALL (UK) – Sophie des Clers, Pierre Failler and Christos Floros
- SOCIO–ECONOMIC IMPACTS OF CETACEAN BYCATCH MITIGATION – Gemma Marchant and Ian Pollard

2c) (ENVIRONMENTAL) LABELS AND PREFERENCES

- A COST–BENEFIT ANALYSIS OF A PUBLIC LABELLING SCHEME OF FISH QUALITY – Max Nielsen, Frank Jensen, and Eva Roth
- AQUACULTURE AND THE ENVIRONMENT: PUBLIC PREFERENCES AND ECONOMIC VALUES – David Whitmarsh and Premachandra Wattage

THEME THREE: FISHERIES DEVELOPMENT AND EMPLOYMENT

3a) MODELLING TRENDS IN EMPLOYMENT AND WAGES

- FISHERIES VERSUS AQUACULTURE ON A TYPICAL PORTUGUESE COASTAL COMMUNITY – Pedro Pintassilgo, Cristina Pita and Maria Teresa Dinis
- WAGES IN THE FISHING SECTOR: AN ESTIMATION OF THE WAGE LEVEL FOR THE FISHING FLEETS IN THE BASQUE COUNTRY – I.del Valle, K Astorkiza and I. Astorkiza
- VOCATIONAL EDUCATIONAL TRAINING PATHWAYS IN THE MEDITERRANEAN – Claudio Sdogati and Roberto Penna

3b) THE ROLE OF FISHERIES IN DEVELOPMENT

- REGIONAL INCOME GENERATION AND FISHERIES SECTOR LINKAGES IN A DANISH REGION – Henning Joergensen
- DO FISHERIES CONTRIBUTE TO REGIONAL DEVELOPMENT? THE CASE OF CORNWALL IN ENGLAND – Pierre Failler, Sophie Des Clers and Christos Floros

THEME FOUR: IMPACT OF FISHERIES MANAGEMENT DECISIONS ON FISHERIES

4a) OUTPUT CONTROLS: TACs

- MEASURING CAPACITY IN A PROFIT MAXIMIZING MP SET–UP: SENSITIVITY WITH RESPECT TO LONG RUN STOCK EFFECTS – Jens Kjærsgaard
- OPTIMAL QUOTA CONFIGURATION FOR THE FLEET OF DANISH TRAWLERS BELOW 50 GRT: A DUAL APPROACH – Ayoe Hoff and Hans Frost
- COD RECOVERY PLAN: PREDICTED AND REALISED „LOSSES" IN THE CASE OF GERMANY – Rainer Klepper
- THE SCOTTISH WHITEFISH FLEET: IMPACT OF FISHERIES MANAGEMENT DECISIONS – Jim Watson

4b) OUTPUT CONTROLS: ITQs

- OUTPUT REGULATION OF MULTIPRODUCT FIRMS: AN APPLICATION OF THE QUADRATIC PROFIT FUNCTION – C.L. Jensen, F. Asche and D. Gordon
- INDIVIDUAL QUOTAS, DISCARDING AND STOCK SIZE – Vilhjálmur H. Wiium
- CAPACITY REDUCTION IN THE ICELANDIC TRAWLER FISHERY – Eyjolfur Gudmundsson
- SOME LINKS BETWEEN FISH EXPORT MARKETING AND FISHERIES MANAGEMENT: THE CASE OF NORWEGIAN COD – Torbjorn Trondsen, James A Young and Klaus G. Grunert
- INDIVIDUAL VESSEL QUOTAS – OVERCAPACITY AND POTENTIAL RENT: A CASE STUDY OF THE SWEDISH COD TRAWL FISHERY IN THE BALTIC SEA – Håkan Eggert and Ragnar Tveterås

4c) FISHERS' PERCEPTIONS

- INCENTIVE COMPATIBILITY OF FISH–SHARING AGREEMENTS – Rögnvaldur Hannesson
- HETEROGENEOUS FISHERMEN – SOME IMPLICATIONS FOR MANAGEMENT – Gunnar Haraldsson
- FISHERIES IN EUROPE: A SURVEY OF FISHERMEN PERCEPTIONS – Denis Bailly and Pascal Raux
- MEASURING THE EFFECTS OF DISTANCE TO FISHING GROUNDS IN LOCATION CHOICE MODELLING – Simon Mardle and Trevor Hutton
- FISHERIES MANAGEMENT IN THE NORTH SEA: ANALYSING FISHERMEN PERCEPTIONS – Frédérique Alban, Pascal Raux, and Denis Bailly

4d) OTHER MANAGEMENT MEASURES

- A COMPARATIVE ANALYSIS OF ITALIAN BUY BACK PROGRAMS – Massimo Spagnolo, Rosaria Sabatella and Evelina Sabatella
- THE ECONOMIC IMPACT OF A FISHING BAN – THE CASE OF THE NEPHROPS FISHERY IN THE BAY OF BISCAY (FRANCE) – Pascal le Floc'h, Sébastien Metz and Muriel Travers

- INCORPORATING BIOLOGICAL AND SOCIO–ECONOMIC OBJECTIVES INTO THE MANAGEMENT OF ATLANTIC SALMON (*SALMO SALAR L.*) ON THE RIVER LUNE, NORTH WEST ENGLAND – Brian A. Shields and Miran W. Aprahamian
- THE SAM MATRIX FOR THE GALIZIAN FISHING SECTOR: WHAT DO WE LEARN FROM IT? – Javier Fernández–Macho, Maria Carmen Gallastegui and Pilar González
- THE NEED OF INTERNATIONAL REGULATION: THE CASE OF FAD IN OCEAN TUNA FISHERIES – Kepa Astorkiza Ikazuriaga and Ikerne Del Valle Erkiaga

THEME FIVE: RESEARCH ISSUES

5a) BIO–ECONOMIC MODELLING

- A NEW FORMULATION OF THE SCHAEFER MODEL – Gianluigi Coppola and Vincenzo Placenti
- FROM BIOLOGY TO ECONOMY: DEVELOPMENT OF A COMPUTABLE GENERAL EQUILIBRIUM MODEL (CGEM) APPLIED TO THE FRENCH FISHERY SECTOR – Pascal Bernard and Emmanuel Chassot
- ECOLOGICAL SUSTAINABLE FISHERIES ON THE LONG–TERM –ECONOMICAL MISERY FOR THE FISHERMEN ON THE SHORT–TERM – Jari Setälä, Outi Heikinheimo, Kaija Saarni and Jari Raitaniemi
- FISHING SELECTIVITY AND EFFORT TAX IN THE MULTI–GEAR HAKE FISHERY (SOUTHERN STOCK) – Mª Dolores Garza–Gil and Manuel M. Varela–Lafuente
- ANALYTICAL AND METHODOLOGICAL TOOLS FOR FISHERIES MANAGEMENT: THE ADRIATIC SEA – Roberto Petrocchi and Nikolina Jukić Peladić
- AN ECONOMETRIC APPROACH TO COMPARE THE EFFECTS OF VARIATIONS OF FISHING CAPACITY AND ACTIVITY – Paolo Accadia, Michele De Meo and Monica Gambino

5b) DATA SAMPLING, INDICATORS AND TIME–SERIES

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The Sixteenth Annual Conference of the European Association of Fisheries Economists (EAFE) was held at FAO headquarters in Rome, Italy, from 5 to 7 April 2004.The purpose of the conference was to provide a forum for the dissemination of recent advances in capture fisheries and aquaculture economics and management and to promote discussion among researchers, managers, policy-makers and other stakeholders in the fisheries sector. It aimed at contributing to the following EAFE objectives: to promote cooperation in research in fisheries and aquaculture; to assist in the dissemination of information about fisheries economics among members; and to understand further the economics of fisheries and aquaculture. During the conference 63 presentations were given, addressing a wide variety of issues grouped into the following six themes: 1) World Trade Organization negotiations with specific reference to market access and fishery subsidies issues; 2) Ecological and environmental interactions with the economics of fisheries; 3) Impact of fisheries management decisions on fisheries; 4) European research issues; 5) Fisheries development and employment; and 6) Industry issues.
A CD-ROM containing unedited papers presented at the conference is included.

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